UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,422	03/17/2004	Jerry Mun Coley	M61.12-0626	3859

27366 7590 06/09/2009

WESTMAN CHAMPLIN (MICROSOFT CORPORATION)
SUITE 1400
900 SECOND AVENUE SOUTH
MINNEAPOLIS, MN 55402

EXAMINER	
VO, TED T	

ART UNIT	PAPER NUMBER
2191	

MAIL DATE	DELIVERY MODE
06/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/802,422	COLEY ET AL.	
	Examiner	Art Unit	
	TED T. VO	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 March 2009*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,3-10,12-15 and 26-37* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,3-10,12-15 and 26-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5/13/09*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is in response to the amendment filed on 03/24/2009.

Claims 2, 11, 16-25 are canceled. Claims 26-37 are added.

Claims 1, 3-10, 12-15, 26-37 are pending in the application.

Information Disclosure Statement

2. The citation in the form PTO-1449, filed on 05/13/2009, fail to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609.

Response to Arguments

3. Regarding the arguments filed in Remarks on 03/24/2009, the arguments are moot in view of new grounds of rejections.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 15, 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Craig Utley, "A Programmer's Introduction to Visual Basic .NET", SAMS Publishing, 2001 (hereinafter: Utley)

As per Claim 15: Utley discloses, ***A computer-implemented method for reducing coding errors prior to runtime in the context of a managed code execution environment*** (See Figure 2.5, p. 27), ***comprising:***

providing a developer with access to a plurality of managed code resources; and verifying that a resource identifier input by the developer corresponds to one of the plurality of managed code resources (See Figure 2.5, p. 27) ***by:***

providing the developer with a collection of resource identifiers that include at least two identifiers that each identify a different language version of what is essentially the same resource (See Figure 6.15, p. 119, contains resource identifiers in

which the developer recognized CLS-compliant and CLS, as mentioned in appendix A)*; and*

receiving said resource identifier input from the developer in the form of a selection from the collection of resource identifiers (Basis .NET is common language runtime, it provides developers to correspond to managed code resources - see p. 8: 1-7, "The runtime can check to make sure that resources on which you depend are available" - P. 121, Figure 6.15, it has "index", where developers access database to verify the input of visual basic identifiers)

As per claim 26: Utley discloses *"The method of claim 15, wherein verifying comprises utilizing a computer processor that is a functional component of the computer to verify"*, because the Utley IDE is run in a computer.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1, 3-10, 12-14, 27-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Craig Utley, "A Programmer's Introduction to Visual Basic .NET", SAMS Publishing, 2001 (hereinafter: Utley), in view of Griffiths et al (hereinafter: Griffiths), ".NET Windows forms in a Nutshell", April 2003.

As per Claim 1: Utley discloses,

A computer-implemented method for reducing coding errors prior to runtime in the context of a managed code execution environment, comprising:

providing a developer with access to a plurality of managed code resources; (e.g. Visual STUDIO/Basic .NET [design] in pages 26, 32, 35, etc, having a text box that is accessible to code resources); ***and***

utilizing a computer processor that is a functional component of the computer to verify that a resource identifier input by the developer corresponds to one of the plurality of managed code resources (Basis .NET is common language runtime, it provides developers to correspond to managed code resources - see p. 8: 1-7, "The runtime can check to make sure that resources on which you depend are available" - P. 121, Figure 6.15, it has "index", where developers access database to verify the input of visual basic identifiers. E.g., refer the language "the runtime" seen in p. 8, e.g. in a compiling/debugging phase, runtime can check to make sure the resources on which you depend are available. See p. 35, Figure 2.11, a runtime to verify the function of button_click that produce an output string "Hello, World". Obviously, if an error in the code, the IDE of Figure 2.11 issues the error message right away) ***by: providing the developer with a collection of resource identifiers*** (i.e. the string and it name, button1, string)***:***

and receiving said resource identifier input from the developer in the form of a selection from the collection of resource identifiers (e.g., Figure 6.13, p. 116 and Figure 6.14, p.119, Figure 6.15, providing binding data, string collections, also see section validation controls in p. 142 for verifying); ***and***

automatically inserting, based at least in part on the selection, the one of the plurality of managed code resources into a programming code.

The Utley shows a pull down button (p. 116) that represents one of the plurality code resource in visual/graphical manner.

Utley does not clearly address "disclose *automatically inserting, based at least in part on the selection, the one of the plurality of managed code resources into a programming code".*

The .NET of Griffiths shows a Resource Managers that discloses the claimed feature (Discussing in p. 84, "Resource Managers" or page 88, when the user particularly selects a resource to insert it in the code area).

It appears that an .NET IDE include various features, in which it depends on the program type and user choice, where the reference of Utley shows the IDE with the visually features in the FORM of the .NET, while the Griffiths shows the Resource manager handle at code level.

Thus it is obvious to the ordinary in the art for the combination of the two references to show fully capacity of an IDE, depending upon the types of code and user choice, and the resource manager that provides the insertion of code will be used when it is necessary selected.

Utley does not

As per claims 27-28: Regarding the claim limitation:

27. The method of claim 26, wherein providing the developer with a collection of resource identifiers comprises displaying the collection of resource identifiers in a pop-up (Giffiths: p. 74) ***window in a coding area.***

28. The method of claim 27, further comprising: automatically inserting a string that corresponds to the selection into a programming code in the coding area.

The claims 27-28 have the claimed functionality in claim 1. See the rationale in the rejection of the claim 1 above.

As per Claim 3: Regarding, ***The method of claim 1, wherein providing a collection of resource identifiers comprises providing a collection of methods and properties that correspond to a particular class selected by the developer*** (See Utley, Figure 6.15, "index", or see Griffiths,).

As per Claim 4: Utley discloses, ***The method of claim 1, wherein providing a collection of resource identifiers comprises providing a collection of resource identifiers in response to an input by the developer of an activation key, wherein the activation key is selected from the group consisting of a period, a space bar, and a left parenthesis.***

(Utley: Refer to environment in the IDE , e.g. Figures 6.13-15, or see Griffiths, disusing in the Forms Designer, start at p. 60.

As per Claim 5: Regarding ***The method of claim 4, wherein providing in response to an input of an activation key comprises providing in response to an input of an activation key that follows input of a resource class, wherein providing a collection of resource identifiers comprises providing the collection of resource identifiers in the form of a drop-down list, and***

wherein stopping on one of the resource identifiers in the drop-down list for a predetermined amount of time causes additional information to appear in a pop-up window proximate to the drop-down list. Developers using combinations of Visual Studio/basic .Net, e.g. using Class View; particularly, see the Griffiths teaching in Forms Designer, start at p. 60, and Resource Managers, start at p. 89.

As per Claim 6: Regarding, ***The method of claim 1, wherein providing a collection of resource identifiers comprises providing a collection of key names, string, and values*** (Developers using combinations of Visual Studio/basic .Net. Particularly, see discussing Resource Managers in Griffiths).

As per Claim 7: Regarding, ***The method of claim 6, wherein automatically inserting comprises automatically inserting one of the key names, one of the strings, and one of the values into the programming code at an appropriate location.***

See Griffiths in Resource Managers.

As per Claim 8: Regarding, ***The method of claim 1, further comprising providing the developer with a resource value within a pop-up box that corresponds to a selected one of the collection of resource identifiers, and wherein automatically inserting comprises automatically inserting the resource value into the programming code.***

See Griffiths in Resource Managers.

As per Claim 9: Regarding, ***The method of claim 8, further comprising keying in a precursor to a resource identifier.***

Developers using combinations of Visual Studio/basic .Net, connecting the database, e.g. using "index" and see Figures 6.13-15, and further see Griffiths in Resource Managers.

As per Claim 10: Regarding, ***The method of claim 9, wherein providing the collection of resource identifiers comprises providing information that corresponds to the precursor, and wherein the consecutive order of the steps is first providing, second utilizing, and third automatically inserting*** Developers using combinations of Visual Studio/basic .Net, connecting the database, e.g. See Griffiths in Resource Managers.

As per Claim 12: Regarding, ***The method of claim 1, further comprising: receiving from the developer an addition to the plurality of managed code resources, wherein the addition configures the managed code execution environment to accept a new resource input.***
See Utley, IDE and see Griffiths Resource managers.

As per Claim 13: Regarding, ***The method of claim 1, wherein providing a collection of resource identifiers comprises displaying a collection of resource identifiers in response to an input by the developer that corresponds to a request for a display of resource information, wherein the collection of resource identifiers are displayed in a graphical user interface window that is positioned within a coding area*** (The Visual Studio/Basic .NET provides collection of resource identifiers by allowing user to access the database and allows the developers' request and see Griffiths, resource managers).

As per Claim 14: Regarding, ***The method of claim 13, wherein displaying a collection of resource identifiers in response to an input by the developer that corresponds to a request for a display of resource information comprises: automatically displaying the collection of resource identifiers when a cursor is positioned at a location associated with information availability***

(The Visual Studio/Basic .NET provides the developers to use the cursor and to position at any locations in which the information is available, and see Griffiths, resource managers).

As per Claims 29-37: Regarding the recitations in claims 29-37, See rationales addressed in the rejection of claims 1, 3-10, 12-14, accordingly.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (571) 272-3706. The examiner can normally be reached on 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Y. Zhen can be reached on (571) 272-3708.

The facsimile number for the organization where this application or proceeding is assigned is the Central Facsimile number 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTV
June 8, 2009

/Ted T. Vo/
Primary Examiner, Art Unit 2191